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Term	Documents
CTLA\$	0
CTLA.USPT,PGPB.	240
CTLACT.USPT,PGPB.	4
CTLACT-ROUTINE.USPT,PGPB.	1
CTLADD.USPT,PGPB.	1
CTLADR.USPT,PGPB.	1
CTLADR/CT.USPT,PGPB.	1
CTLAЕ.USPT,PGPB.	1
CTLAI.USPT,PGPB.	1
CTLAIG.USPT,PGPB.	10
.....	
TREAT\$(TREATMENT/POST).USPT,PGPB.	pickup term
((CTLA\$) AND (TREAT\$ OR INHIBIT\$ OR SUPPRESS\$ OR THERAP\$ OR ADMINIST\$)SAME(SCLEROSIS OR MULTIPLE ADJ SCLEROSIS)).USPT,PGPB.	81

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Refine Search:

(ctla\$) and (treat\$ or inhibit\$ or
suppress\$ or therap\$ or
administ\$)same(sclerosis or multiple adj

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<u>DB Name</u>	<u>Query</u>	<u>Hit Count</u>	<u>Set Name</u>
USPT,PGPB	(ctla\$) and (treat\$ or inhibit\$ or suppress\$ or therap\$ or administ\$)same(sclerosis or multiple adj sclerosis)	81	<u>L4</u>
USPT,PGPB	(ctla\$) and (sclerosis or multiple adj sclerosis)	98	<u>L3</u>
USPT,PGPB	(ctla\$) same (sclerosis or multiple adj sclerosis)	3	<u>L2</u>
USPT,PGPB	(ctla\$) same (sclerosis or multiple adj sclerosis). clm.	0	<u>L1</u>

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Term	Documents
CTLA\$	0
CTLA.DWPI,EPAB,JPAB.	67
CTLACTLA.DWPI,EPAB,JPAB.	1
CTLACTLAC.DWPI,EPAB,JPAB.	1
CTLACTLACTLBCTLB.DWPI,EPAB,JPAB.	1
CTLADR.DWPI,EPAB,JPAB.	1
CTLAMP.DWPI,EPAB,JPAB.	1
CTLAN.DWPI,EPAB,JPAB.	6
CTLA4.DWPI,EPAB,JPAB.	62
CTLA4IG.DWPI,EPAB,JPAB.	8
((CTLA\$) AND (TREAT\$ OR INHIBIT\$ OR SUPPRESS\$ OR THERAP\$ OR ADMINIST\$)SAME(SCLEROSIS OR MULTIPLE ADJ SCLEROSIS)).JPAB,EPAB,DWPI.	14

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suppress\$ or therap\$ or
administ\$)same(sclerosi\$ or multiple adj

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<u>DB Name</u>	<u>Query</u>	<u>Hit Count</u>	<u>Set Name</u>
JPAB,EPAB,DWPI	(ctla\$) and (treat\$ or inhibit\$ or suppress\$ or therap\$ or administ\$)same(sclerosis or multiple adj sclerosis)	14	<u>L5</u>
USPT,PGPB	(ctla\$) and (treat\$ or inhibit\$ or suppress\$ or therap\$ or administ\$)same(sclerosis or multiple adj sclerosis)	81	<u>L4</u>
USPT,PGPB	(ctla\$) and (sclerosis or multiple adj sclerosis)	98	<u>L3</u>
USPT,PGPB	(ctla\$) same (sclerosis or multiple adj sclerosis)	3	<u>L2</u>
USPT,PGPB	(ctla\$) same (sclerosis or multiple adj sclerosis). clm.	0	<u>L1</u>

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CTLACTLA.DWPI,EPAB,JPAB.	1
CTLACTLAC.DWPI,EPAB,JPAB.	1
CTLACTLACTLBCTLB.DWPI,EPAB,JPAB.	1
CTLADR.DWPI,EPAB,JPAB.	1
CTLAMP.DWPI,EPAB,JPAB.	1
CTLAN.DWPI,EPAB,JPAB.	6
CTLA4.DWPI,EPAB,JPAB.	62
CTLA4IG.DWPI,EPAB,JPAB.	8
((CTLA\$) AND (TREAT\$ OR INHIBIT\$ OR SUPPRESS\$ OR THERAP\$ OR ADMINIST\$)SAME(SCLEROSIS OR MULTIPLE ADJ SCLEROSIS)).JPAB,EPAB,DWPI.	14

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suppress\$ or therap\$ or
administ\$)same(sclerosis or multiple adj

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<u>DB Name</u>	<u>Query</u>	<u>Hit Count</u>	<u>Set Name</u>
JPAB,EPAB,DWPI	(ctla\$) and (treat\$ or inhibit\$ or suppress\$ or therap\$ or administ\$)same(sclerosis or multiple adj sclerosis)	14	<u>L5</u>
USPT,PGPB	(ctla\$) and (treat\$ or inhibit\$ or suppress\$ or therap\$ or administ\$)same(sclerosis or multiple adj sclerosis)	81	<u>L4</u>
USPT,PGPB	(ctla\$) and (sclerosis or multiple adj sclerosis)	98	<u>L3</u>
USPT,PGPB	(ctla\$) same (sclerosis or multiple adj sclerosis)	3	<u>L2</u>
USPT,PGPB	(ctla\$) same (sclerosis or multiple adj sclerosis). clm.	0	<u>L1</u>

6/7/56 (Item 7 from file: 399)
DIALOG(R)File 399:CA SEARCH(R)
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123081061 CA: 123(7)81061d JOURNAL
Role of CD80 (B7-1) and CD86 (B7-2, B70) in T cell activation
AUTHOR(S): Ebata, Tomohiko; Azuma, Miyuki
LOCATION: Sch. Med., Juntendo Univ., Tokyo, Japan, 113
JOURNAL: Mol. Med. (Tokyo) DATE: 1995 VOLUME: 32 NUMBER: Suppl. 428
PAGES: 22-9 CODEN: MOLMEL ISSN: 0918-6557 LANGUAGE: Japanese
SECTION:
CA215000 Immunochemistry
IDENTIFIERS: CD80 CD86 T lymphocyte signaling review, B71 B72 T
lymphocyte signaling review
DESCRIPTORS:
Antigens, B70... Antigens, B7/BB-1... Lymphocyte, T-cell... Signal
transduction, biological...
B7-1 and B7-2 antigens role in T-cell signaling

6/7/57 (Item 8 from file: 399)
DIALOG(R)File 399:CA SEARCH(R)
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123081035 CA: 123(7)81035y JOURNAL
Distinct roles for the costimulatory ligands B7-1 and B7-2 in T helper
cell differentiation?
AUTHOR(S): Thompson, Craig B.
LOCATION: Howard Hughes Medical Inst., Univ. Chicago, Chicago, IL, 60637,
USA
JOURNAL: Cell (Cambridge, Mass.) DATE: 1995 VOLUME: 81 NUMBER: 7
PAGES: 979-82 CODEN: CELLB5 ISSN: 0092-8674 LANGUAGE: English
SECTION:
CA215000 Immunochemistry
IDENTIFIERS: review B71 B72 T cell differentiation
DESCRIPTORS:
Antigens, B70... Hematopoiesis, T-cell lymphopoiesis... Lymphocyte, T-cell,
helper cell...
distinct roles for B7-1 and B7-2 in T helper cell differentiation
Antigens, B7/BB-1...
Distinct roles for the costimulatory ligands B7-1 and B7-2 in T helper
cell differentiation

6/7/58 (Item 9 from file: 399)
DIALOG(R)File 399:CA SEARCH(R)
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122130384 CA: 122(11)130384b JOURNAL
Functional role of CD86 (B70/B7-2) on T cell activation
AUTHOR(S): Ito, Daisuke; Azuma, Miyuki
LOCATION: Juntendo Univ., Tokyo, Japan, 113
JOURNAL: Immunol. Front. DATE: 1994 VOLUME: 4 NUMBER: 6 PAGES: 541-4
CODEN: IMFREG ISSN: 0917-0774 LANGUAGE: Japanese
SECTION:
CA215000 Immunochemistry
IDENTIFIERS: CD86 antigen structure function review, T lymphocyte CD86
antigen review
DESCRIPTORS:

Lymphocyte,T-cell...
B7-2 antigen in activation of
Antigens,B70...
in T-cell activation

6/7/59 (Item 10 from file: 399)
DIALOG(R)File 399:CA SEARCH(R)
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121202514 CA: 121(17)202514y JOURNAL
B70 (B7-2), a second ligand for CD28 and CTLA-4
AUTHOR(S): Ito, Daisuke; Azuma, Miyuki
LOCATION: Fac. Med., Univ. Tokyo, Tokyo, Japan, 113
JOURNAL: Jikken Igaku DATE: 1994 VOLUME: 12 NUMBER: 12 PAGES: 1551-5
CODEN: JIIGEF ISSN: 0288-5514 LANGUAGE: Japanese
SECTION:
CA215000 Immunochemistry
IDENTIFIERS: review B70 CD28 CTLA4 antigen ligand
DESCRIPTORS:
Antigens,B70... Antigens,CD28... Proteins,specific or class, CTLA-4...
B70 antigen as ligand for CD28 and CTLA-4
?
Connection closed by remote host

6/7/3 (Item 3 from file: 5)
DIALOG(R)File 5:Biosis Previews(R)
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11669616 BIOSIS NO.: 199800451347

Targeting the B7 /CD28: CTLA-4 costimulatory system in CNS autoimmune disease.

AUTHOR: Karandikar Nitin J; Vanderlugt Carol L; Bluestone Jeffrey A; Miller Stephen D(a)

AUTHOR ADDRESS: (a)Dep. Microbiol.-Immunol. Interdepartmental Immunobiol. Cent., North Western Univ. Med. Sch., 303**USA

JOURNAL: Journal of Neuroimmunology 89 (1-2):p10-18 Aug. 14, 1998

ISSN: 0165-5728

DOCUMENT TYPE: Literature Review

RECORD TYPE: Abstract

LANGUAGE: English

ABSTRACT: The B7/CD28:CTLA-4 costimulatory pathway plays a critical role in determining the fate of immune responses (activation vs. down-regulation) and is a highly promising therapeutic target for treating autoimmune diseases. In this **review**, we highlight the mechanisms by which this costimulatory pathway operates emphasizing the role of the different components in the pathogenesis of relapsing experimental autoimmune encephalomyelitis, a CD4 T cell-mediated autoimmune model of multiple sclerosis. The separate and distinct roles of B7-1, **B7-2** and CTLA-4 in positive and negative regulation of autoimmune pathogenesis are

6/7/1 (Item 1 from file: 5)
DIALOG(R)File 5:BIOSIS Previews(R)
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11995577 BIOSIS NO.: 199900276096
CD28/CTLA-4 and CD80/CD86 families: Signaling and function.
AUTHOR: Slavik Jacqueline M; Hutchcroft Jill E; Bierer Barbara E(a)
AUTHOR ADDRESS: (a)National Heart, Lung, and Blood Ins., 10 Center Drive,
Bldg. 10, Room 5D49, Bethesda, MD, 20892**USA
JOURNAL: Immunologic Research 19 (1):p1-24 Feb., 1999
ISSN: 0257-277X
DOCUMENT TYPE: Literature Review
RECORD TYPE: Abstract
LANGUAGE: English
SUMMARY LANGUAGE: English

ABSTRACT: T cell stimulation in the absence of a second, costimulatory signal can lead to anergy or the induction of cell death. CD28 is a major T cell costimulatory receptor, the coengagement of which can prevent anergy and cell death. The CD28 receptor is a member of a complex family of polypeptides that includes at least two receptors and two ligands. Cytotoxic lymphocyte-associated molecule-4 (CTLA-4, CD152) is the second member of the CD28 receptor family. The ligands or counterreceptors for these two proteins are the B7 family members, CD80 (B7-1) and CD86 (B7-2). This article **reviews** the CD28/CTLA4 and CD80/CD86 families, and outlines the functional outcomes and biochemical signaling pathways recruited after CD28 ligation.